

# **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

10/677, 9563
IFW16
09/14/2006

# ENTERED





IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/677,956B

DATE: 09/14/2006 //10/677.956B TIME: 15:32:14

Input Set : E:\16988.ST25.txt

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5 <110 > APPLICANT: Zebedee, Suzanne
             Inchauspe, Genevieve
             Nasoff, Marc S.
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             Prince, Alfred M.
    10 <120> TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING RECOMBINANT
VIRAL ANTIGENS
    12 <130> FILE REFERENCE: 323-100USD
    14 <140> CURRENT APPLICATION NUMBER: 10/677,956B
    15 <141> CURRENT FILING DATE: 2003-10-01
    17 <150> PRIOR APPLICATION NUMBER: 08/931,855
    18 <151> PRIOR FILING DATE: 1997-09-16
    20 <150> PRIOR APPLICATION NUMBER: 08/563,733
    21 <151> PRIOR FILING DATE: 1995-11-08
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    27 <151> PRIOR FILING DATE: 1990-11-21
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    30 <151> PRIOR FILING DATE: 1990-08-27
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    34 <170> SOFTWARE: PatentIn version 3.3
    36 <210> SEQ ID NO: 1
    37 <211> LENGTH: 795
    38 <212> TYPE: DNA -
    39 <213> ORGANISM: Human immunodeficiency virus
    42 <220> FEATURE:
    43 <221> NAME/KEY: CDS
    44 <222> LOCATION: (16)..(789)
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    48 .
    49
    51 cat cag gcc ata tca cct aga act tta aat gca tgg gta aaa gta gta
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                                   20
    55 gaa gag aag get tte age eea gaa gtg ata eee atg ttt tea gea tta
                                                                              147
    56 Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu
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                                                    40
    59 tca gaa gga gcc acc cca caa gat tta aac acc atg cta aac aca gtg
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    60 Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val
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                                                55
                                                                              243
    63 ggg gga cat caa gca gcc atg caa atg tta aaa gag acc atc aat gag
    64 Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu
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DATE: 09/14/2006 RAW SEQUENCE LISTING TIME: 15:32:14 PATENT APPLICATION: US/10/677,956B

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Output Set: N:\CRF4\09142006\J677956B.raw

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71 gca cca ggc cag atg aga gaa cca agg gga agt gac ata gca gga act	339
72 Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr	
73 95 100 105	
75 act agt acc ctt cag gaa caa ata gga tgg atg aca aat aat cca cct	387
76 Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro	
77 110 115 120	
79 atc cca gta gga gaa att tat aaa aga tgg ata atc ctg gga tta aat	435
80 Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn	
81 125 130 135 140	
83 aaa ata gta aga atg tat age eet ace age att etg gae ata aga caa	483
84 Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln	
85 145 150 155	e21 ·
87 gga cca aag gaa ccc ttt aga gac tat gta gac cgg ttc tat aaa act	531
88 Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr	
89 160 165 170	F20
91 cta aga gcc gag caa gct tca cag gag gta aaa aat tgg atg aca gaa	579
92 Leu Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu	
93 175 180 185	627
95 acc ttg ttg gtc caa aat gcg aac cca gat tgt aag act att tta aaa	021
96 Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys	
97 190 195 200	675
99 gca ttg gga cca gcg gct aca cta gaa gaa atg atg aca gca tgt cag	675
100 Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln 101 205 210 215 220	
101 205 210 215 220 103 gga gta gga gga ccc aaa aat caa caa tta tta tcc tta tgg ggg tgt	723
103 gga gta gga gga coc aaa aat caa taa taa taa taa taa taa ta	,,,
104 Gly Val Gly Gly Flo Hys Ash Gli Gli Led Led Led 11p Gly Gly Glo 105 225 230 235	
107 aaa ggg aaa ctt gtt tgt tat act tcc gtt aaa tgg aat gga ccc ggc	771
108 Lys Gly Lys Leu Val Cys Tyr Thr Ser Val Lys Trp Asn Gly Pro Gly	
	795
111 cat aag gca aga gtt ttg taataa	795
111 cat aag gca aga gtt ttg taataa 112 His Lys Ala Arg Val Leu	<b>79</b> 5
111 cat aag gca aga gtt ttg taataa 112 His Lys Ala Arg Val Leu 113 255	795
111 cat aag gca aga gtt ttg taataa 112 His Lys Ala Arg Val Leu 113 255 116 <210> SEQ ID NO: 2	795
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RAW SEQUENCE LISTING DATE: 09/14/2006
PATENT APPLICATION: US/10/677,956B TIME: 15:32:14

Input Set : E:\16988.ST25.txt

										•								
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140		_	_		•	70		•			75	-1 -	• • •		<b>63</b>	-		
143 144		Asp	Arg				Val			ao Già	Pro		Ala	Pro	95			
147	Met	Arg	Glu	Pro	Arq	Gly	Ser	Asp	Ile	Ala	Gly	Thr	Thr	Ser	Thr	Leu		
148				100	_	•		•	105		•			110				
	Gln	Glu	Gln		Glv	Tro	Met	Thr	Asn	Asn	Pro	Pro	Ile	Pro	Val	Gly		
152			115					120					125			-		
	Glu	Ile	-	Lvs	Arg	Tro.	Ile	Ile	Leu	Glv	Leu	Asn	Lys	Ile	Val	Arg		
156		130	-1-	-1-	5		135			2		140	-2-			•		
	Met	Tyr	Ser	Pro	Thr	Ser		Leu	Asp	Ile	Ara	Gln	Glv	Pro	Lvs	Glu		
	145	-1-				150					155				-2-	160		
		Phe	Ara	Asp	Tvr		Asp	Ara	Phe	Tvr		Thr	Leu	Arg	Ala			
164					165	-		•••		170	-,,-			3	175			
	Gl n	Ala	Ser	Gln		Val	Lvs	Δsn	Trn		Thr	Glu	Thr	Leu		Val		
168	0111			180	014	•		*****	185	••••				190				
	Gl n	Asn	Al =		Dro	Agn	Cvo	Tare		Tle	T.011	T.vq	Δla		Glv	Pro		
172	OIM	ASII	195	ASII		пор	e, r	200	****		204	-,,,	205		<b>4-</b> 2			
	Δ1 s	Ala		T.Ou	Glu.	Glu	Mot		ምክ -	Al a	Cva	Gln		Val	Glv	Glv		
176	ALG	210	1111	ale ia	ĢIU	GIU	215	MEC	****	nia	Cys	220	0-7		0_3	U3		
	Dro	Lys	Non.	Cln	Gln	Lou		Car	T.au	Trv	G] v		Tayo	Glv	Tug	T.eu		
	225	цуз	veii	GIII	GIII	230	пеп	Ser	Deu	115	235	Cys	בעם	013	270	240		
		Cys	m	mb ~	C.~		Tua	Ten	N c n	Glar		Gl v	Wie	tare	בומ			
184	val	Cys	LYL	1111	245	vai	пур	110	Non	250	FIO	GLY	1113	цуз	255	<b>11-3</b>		
	Val	T 0			243					250					233			
			20 TI	NTO.								•						
		)> SE l> LE	-															
		;> TY			75													
		3> OF			Uums	n in	nmı ı m	AAF+	cier		ei mie	,						
		)> FE			n canc	211 II	mumm	Jue 1	CTCI	icy (	/ 11 U	,						
		l> NA			CDG													
		2> LC	•			. ,-	7001											
		)> SE				•••	,09,											
			_			7 00	ato	ato	r cac		ato	r cac	a aaa	r caa	ato	gta	51	
203	4990	-999		.cca	-	-										. Val		
204					1		, 11	. 142	5			. 011		10				
	cat	cag	acc	ata	-	cct	aga	act	_	aat	aca	táa	ata		gta	gta	99	
		Gln	-				_				-		_		_	_		
208	1112	GIII	15	116	Ser	110		20	110 u	TIO11	nia	P	25	<i>-</i> 30				
-	~	gag	_	aat	++0	200			ata	ata	ccc	ata		tra	cca	tta	147	
211	Glu	Glu	Luc	Mla	Dha	Car	Dro	Glu	772 J	Tla	Pro	Met	Dhe	Ser	Δla	Leu		
	GIU	30	цуз	ATG	FILE	Ser	35	GIU	vai	TTE	PIO	40	FIIC	Jer	ALG	DCU.		
212	tas		~~~	~~~	200	002		ast	++=	220	200		cta	220	aca	ata	195	
		gaa Glu																
		GIU	GIĀ	MIG	TILL	50	GTII	waħ	TIER	₩211		1-1 <del>-1</del>	11CU	von	****	60		
216		~~~	a==		ac-		n+~			++-	55	~~~		a+~	226		243	
		gga			_	-	_		_								243	
	GTÅ	Gly	nıs	GIN		WIG	MEC	GIU	ME C		гÀв	GIU	TIIL	116	75	31u		
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RAW SEQUENCE LISTING DATE: 09/14/2006
PATENT APPLICATION: US/10/677,956B TIME: 15:32:14

Input Set : E:\16988.ST25.txt

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230	act	agt	acc	ctt	cag	gaa	caa	ata	gga	tgg	atg	aca	aat	aat	cca	cct	. 3	87
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	Ile		-		-				_				-					
	125			-		130	•	-		•	135			•		140		
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	Lys		_	_	_		_			-		_	_		-		,	
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246	cta	aga	acc		caa	act	tca	cag	gag	ata	aaa	aat	taa	atq	aca	gaa	5	79
	Leu		_			_		_		_				_				
248			175					180			- 4 -		185			-		
	acc	tta		atc	caa	aat	aca		cca	gat	tat	aag		att	tta	aaa	6	27
	Thr	_	_	_						_	_	_						
252		190					195				- 2	200			-,-			
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	205					210					215				-4 -	220		
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	Gly	-								_						_		-
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	Lys					-				-								_
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268			255	3														
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RAW SEQUENCE LISTING DATE: 09/14/2006
PATENT APPLICATION: US/10/677,956B TIME: 15:32:14

Input Set : E:\16988.ST25.txt

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318 Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu
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322 Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu Leu Val
                180
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326 Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu Gly Pro
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330 Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val Gly Gly
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334 Pro Lys Asn Gln Gln Arg Leu Asn Leu Trp Gly Cys Lys Gly Lys Leu
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338 Ile Cys Tyr Thr Ser Val Lys Trp Asn Gly Pro Gly His Lys Ala Arg
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346 <210> SEQ ID NO: 5
347 <211> LENGTH: 795
348 <212> TYPE: DNA
349 <213> ORGANISM: Human immunodeficiency virus
352 <220> FEATURE:
353 <221> NAME/KEY: CDS
354 <222> LOCATION: (16)..(789)
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359
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361 cat cag gcc ata tca cct aga act tta aat gca tgg gta aaa gta gta
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362 His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val
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366 Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu
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369 tca gaa gga gcc acc cca caa gat tta aac acc atg cta aac aca gtg
                                                                          195
370 Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val
371 45
373 ggg gga cat caa gca gcc atg caa atg tta aaa gag acc atc aat gag
                                                                          243
374 Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu
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                                        70
377 gaa gct gca gaa tgg gat aga gtg cat cca gtg cat gca ggg cct att
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378 Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/677,956B

DATE: 09/14/2006 TIME: 15:32:15

Input Set : E:\16988.ST25.txt

Output Set: N:\CRF4\09142006\J677956B.raw

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Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

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VERIFICATION SUMMARY

DATE: 09/14/2006

PATENT APPLICATION: US/10/677,956B

TIME: 15:32:15

Input Set : E:\16988.ST25.txt
Output Set: N:\CRF4\09142006\J677956B.raw



## 16988 ST25.txt

## SEQUENCE LISTING

<110>	Zebedee, Suzanne Inchauspe, Genevieve Nasoff, Marc S. Prince, Alfred M.
<120>	METHODS AND SYSTEMS FOR PRODUCING RECOMBINANT VIRAL ANTIGENS
<130>	323-100usp
<140>	10/677,956
<141>	2003-10-01
<150>	08/931,855
<151>	1997-09-16
<150>	08/563,733
<151>	1995-11-08
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gaa ga	g aag gct ttc agc cca gaa gtg ata ccc atg ttt tca gca tta 147
Glu Gl	u Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu
30	35 40
tca ga	a gga gcc acc cca caa gat tta aac acc atg cta aac aca gtg 195
Ser Gl	u Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val
45	50 55 60
999 99	a cat caa gca gcc atg caa atg tta aaa gag acc atc aat gag 243 Page 1

#### 16988 ST25.txt

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Page 41